

# HPBS Goals

[ HIGH PERFORMANCE BUILDING STANDARD]

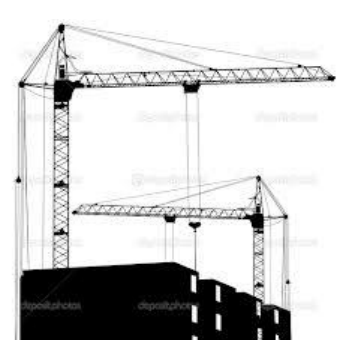


State Architecture and Engineering Division

# 1

## Development Process

- Legislation in 61<sup>st</sup> Session; passed SB0049 that amended 17-7-213 MCA.
- Research started by State A&E
- Development Committee members selected by State A&E
- Facilitators engaged by State A&E November 2012
- Process established at first work session

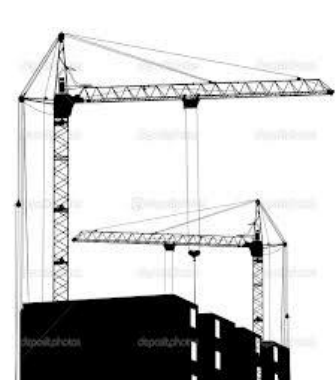


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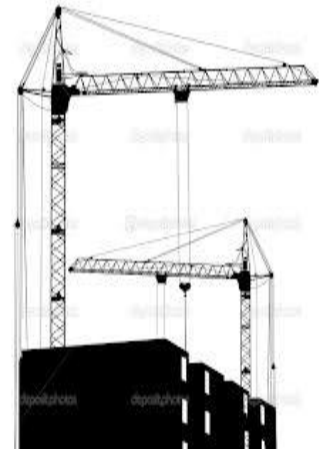
# Agreed to process

- Communication—one point of contact per institution or agency
- Drafts to be developed by small working groups
- Full Development Group approval by consensus
- Russ Katherman, State A&E, point of contact for Development Group and Facilitators
- Public Comment will be taken
- Full Facilities Group presentation set for Fall 2013



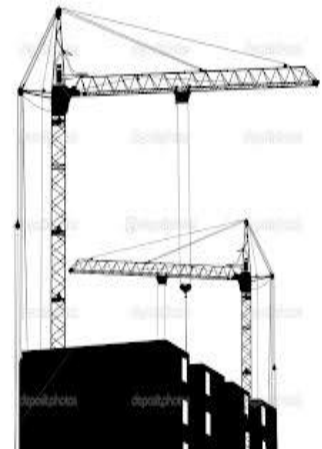
# Development of Drafts

- Research presented by Facilitators
  - Examples of HPBS from other states
  - Definitions used by other states in their documents
  - Tiered systems evaluated
  - Green building rating systems compared
  - Exemptions discussed
  - Documentation requirements evaluated
  - State A&E implementation planned



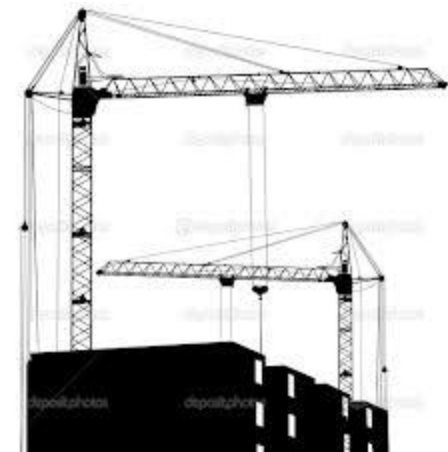
# Review of Drafts

- Sent via email to all Development Committee
- Responses sent to Russ Katherman via email
- No response meant approval of draft
- Changes/edits incorporated by Facilitators
- Final draft posted in summer 2013 on State A&E website
- Design/construction groups sent drafts via email
- Public comment recorded by Russ Katherman
- Presentation to Full Facilities Group Oct. 1, 2013



# 5 As per 61<sup>st</sup> Legislature SB0049

Exceed the International **Energy Conservation** Code most recently adopted by the department of labor and industry by 20% or to the extent that is cost-effective over the life of the building or major renovation (1.b).

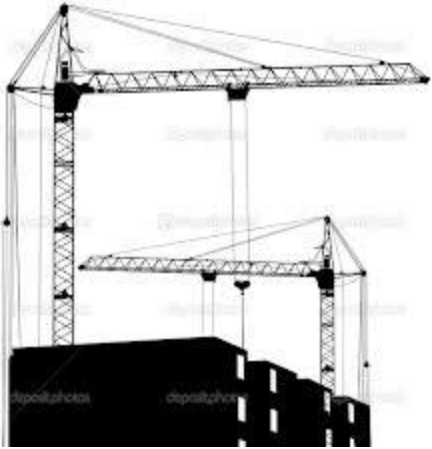


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Increase the use of **environmentally and socially sustainable** (2.c), building materials, finishes, and furnishings from Montana and within the region with an emphasis on functionality, durability, and maintenance (2.d);



Encourage **comprehensive energy plans** for buildings that implement passive design, utilization of local energy sources and local renewable energy sources

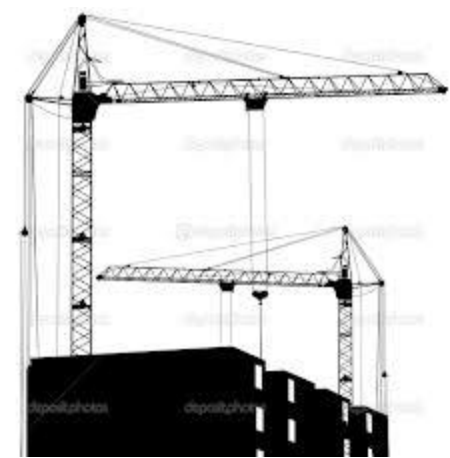


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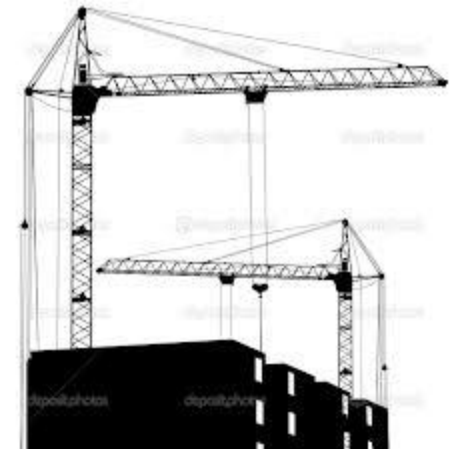
# 8

Protect and conserve the **natural resources** of the state (2.a)



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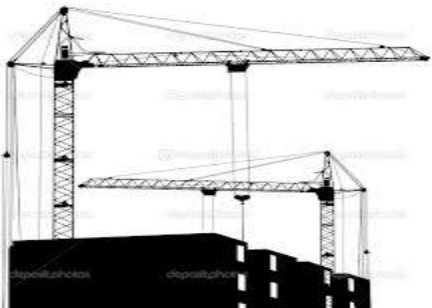
Reduce and **properly manage** waste generation



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# 10

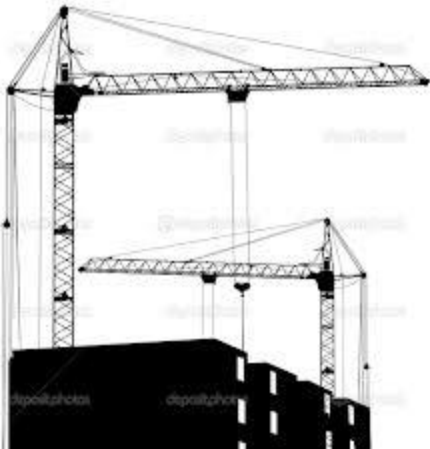
Establish **life-cycle cost** analysis as the appropriate and most efficient analysis to determine the **cost-effectiveness**, including productivity, deferred maintenance, and operational considerations (2.b) of a building project;



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# 11

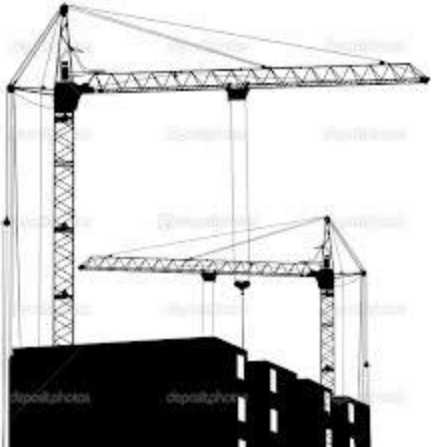
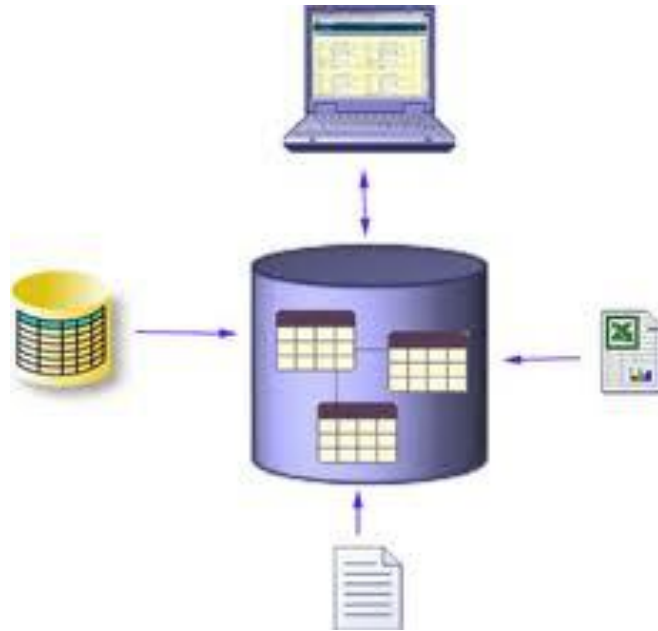
Continue to ensure that the **systems** of each building project are designed, installed, and tested to **perform** according to the design intent and operational needs of the building



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# 12

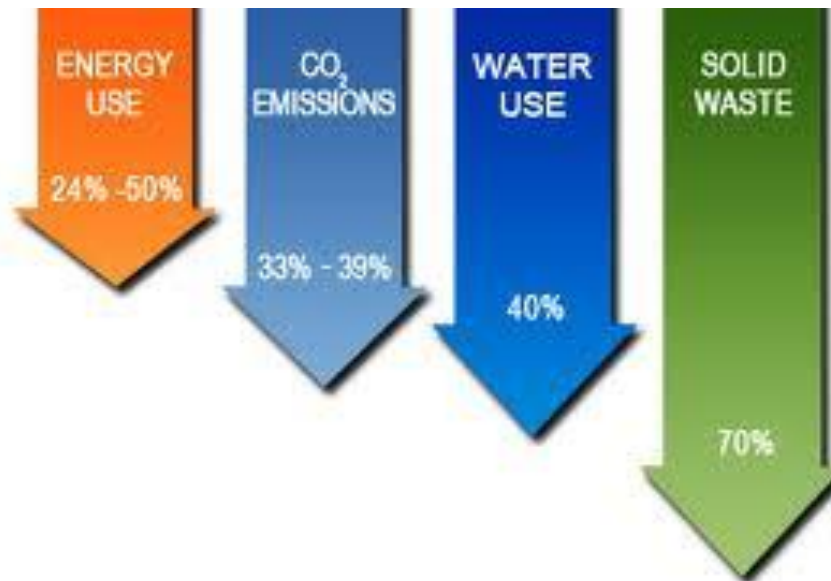
Implement a **comprehensive data** base for all high-performing buildings



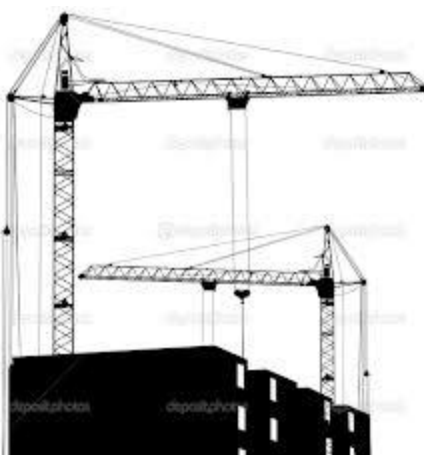
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# 13

Operate and maintain all State Projects at **optimal efficiency**, providing a healthy working environment, and controlling long-term cost.

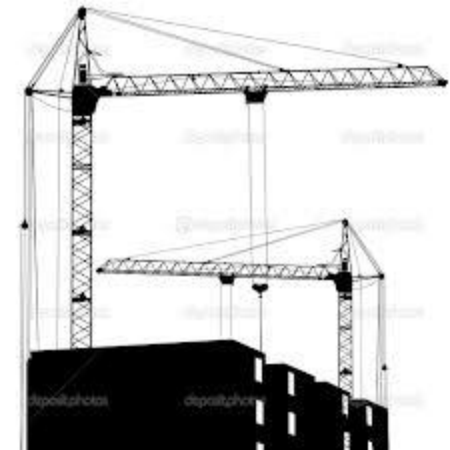


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# 14

Develop **building plans** and other long-term strategic planning processes to incorporate the concepts of high performance buildings.



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